

WHAT IS CLAIMED IS:

1. A process for inducing and/or accelerating at least one phase transformation in molecular solids, wherein the molecular solid is subjected to a tribochemical treatment.
2. The process as claimed in claim 1, wherein the phase transformation is achieved essentially by means of transmission of high mechanical energies.
3. The process as claimed in claim 2, wherein the phase transformation is achieved essentially by means of transmission of high kinetic energies.
4. The process as claimed in claim 1, wherein the transformation is to a crystalline phase.
5. The process as claimed in claim 1, wherein the phase transformation is induced at the interfaces of the solid.
6. The process as claimed in claim 1, wherein the transformation takes place between two polymorphs.
7. The process as claimed in one claim 1, wherein the transformation takes place from an amorphous or glasslike phase to one or more crystalline phases.
8. The process as claimed in claim 1, wherein a solid not present in phase-pure form is converted to a phase-pure polymorph.
9. The process as claimed in claim 1, wherein the solids comprise organic molecules or are of organic origin.
10. The process as claimed in claim 1, wherein the solids are mixtures of inorganic and organic molecules.

11. The process as claimed in claim 1, wherein a semicontinuous process is effected.
12. The process as claimed in claim 1, wherein it is effected under a defined atmosphere.
13. The process as claimed in claim 1, wherein it is effected under a defined pressure.
14. The process as claimed in claim 1, wherein it is effected under temperature control.
15. The process as claimed in claim 1, wherein the solid possesses a greater density after the phase transformation.
16. The use of high-energy mills for performing phase transformations by a process of the claim 1.